```
**************************************************************************
 ___  ___  ____  ____  ____  ____  _  _
|  \/  | |  _ \|  _ \|  _ \|  _ \| || |
| |\/| | | |_) | |_) | |_) | |_) | || |_
|_|  |_| |  __/|  __/|  __/|  __/|__   _|
          |_|   |_|   |_|   |_|      |_|  (TM)
**************************************************************************
```

Release 3.1A John F. Collins, Biocomputing Research Unit.

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Fri Jan 15 15:04:33 1999; MasPar time 3.81 Seconds
586.602 Million cell updates/sec

Tabular output not generated.

Title: >US-08-790-043B-2
Description: (1-256) from US08790043B.pep
Perfect Score: 1753
Sequence: 1 MLNLENKTYVIMGIANKRSI.....LSSGVTGENIHVDSGFHAIK 256

Scoring table: PAM 150
Gap 11

Searched: 92929 seqs, 8738560 residues

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: a-issued
1:5_COMB 2:PCT9_COMB 3:backfiles1

Statistics: Mean 30.516; Variance 165.768; scale 0.184

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
1	748	42.7	262	1	US-08-241-	Sequence 9, Applicatio	1.79e-47
2	732	41.8	262	1	US-08-241-	Sequence 8, Applicatio	3.09e-46
3	357	20.4	269	1	US-08-241-	Sequence 6, Applicatio	1.11e-17
4	355	20.3	269	1	US-08-241-	Sequence 7, Applicatio	1.57e-17
5	341	19.5	269	1	US-08-241-	Sequence 4, Applicatio	1.72e-16
6	340	19.4	269	1	US-08-241-	Sequence 5, Applicatio	2.04e-16
7	340	19.4	269	1	US-08-241-	Sequence 14, Applicati	2.04e-16
8	224	12.8	244	1	US-08-762-	Sequence 3, Applicatio	5.81e-08
9	219	12.5	244	1	US-08-762-	Sequence 4, Applicatio	1.32e-07
10	210	12.0	244	1	US-08-762-	Sequence 1, Applicatio	5.72e-07
11	171	9.8	256	1	US-08-594-	Sequence 7, Applicatio	2.99e-04
12	164	9.4	244	1	US-08-375-	Sequence 13, Applicati	9.02e-04
13	142	8.1	246	3	5229279-7	Patent No. 5229279.	2.73e-02
14	118	6.7	247	1	US-08-241-	Sequence 13, Applicati	1.00e+00
15	111	6.3	299	1	US-08-137-	Sequence 6, Applicatio	2.78e+00
16	108	6.2	273	3	5512669-4	Patent No. 5512669.	4.29e+00
17	103	5.9	394	1	US-08-553-	Sequence 1, Applicatio	8.76e+00
18	100	5.7	418	1	US-08-477-	Sequence 3, Applicatio	1.34e+01
19	100	5.7	418	1	US-08-121-	Sequence 3, Applicatio	1.34e+01
20	100	5.7	418	2	PCT-US93-0	Sequence 3, Applicatio	1.34e+01
21	100	5.7	764	2	PCT-US95-1	Sequence 4, Applicatio	1.34e+01
22	100	5.7	764	1	US-08-375-	Sequence 4, Applicatio	1.34e+01
23	100	5.7	1089	2	PCT-US95-1	Sequence 2, Applicatio	1.34e+01
24	100	5.7	1089	1	US-08-375-	Sequence 2, Applicatio	1.34e+01
25	99	5.6	394	1	US-08-002-	Sequence 6, Applicatio	1.54e+01
26	99	5.6	394	1	US-08-002-	Sequence 9, Applicatio	1.54e+01
27	99	5.6	394	1	US-08-002-	Sequence 11, Applicati	1.54e+01
28	97	5.5	647	1	US-08-218-	Sequence 1, Applicatio	2.04e+01
29	95	5.4	477	1	US-08-191-	Sequence 2, Applicatio	2.69e+01
30	91	5.2	201	1	US-08-252-	Sequence 6, Applicatio	4.67e+01
31	91	5.2	201	1	US-08-292-	Sequence 6, Applicatio	4.67e+01
32	91	5.2	201	2	PCT-US93-1	Sequence 6, Applicatio	4.67e+01
33	92	5.2	263	1	US-07-721-	Sequence 51, Applicati	4.07e+01
34	92	5.2	288	1	US-07-721-	Sequence 52, Applicati	4.07e+01
35	91	5.2	318	1	US-08-375-	Sequence 14, Applicati	4.67e+01
36	91	5.2	453	1	US-08-421-	Sequence 2, Applicatio	4.67e+01
37	91	5.2	453	1	US-08-089-	Sequence 2, Applicatio	4.67e+01
38	92	5.2	582	1	US-08-261-	Sequence 2, Applicatio	4.07e+01
39	91	5.2	953	1	US-08-506-	Sequence 1, Applicatio	4.67e+01
40	91	5.2	15281	1	US-08-471-	Sequence 2, Applicatio	4.67e+01
41	90	5.1	117	1	US-08-178-	Sequence 2, Applicatio	5.36e+01
42	90	5.1	1170	1	US-08-313-	Sequence 20, Applicati	5.36e+01
43	90	5.1	2366	1	US-08-480-	Sequence 10, Applicati	5.36e+01
44	90	5.1	3033	1	US-07-925-	Sequence 8, Applicatio	5.36e+01
45	90	5.1	3033	1	US-07-925-	Sequence 9, Applicatio	5.36e+01

ALIGNMENTS

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XX
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DE   Sequence 9, Application US/08241766
XX
CC    Sequence 9, Application US/08241766
CC    Patent No. 5686590
CC     GENERAL INFORMATION:
CC       APPLICANT:  JACOBS, W. R.
CC       APPLICANT:  COLLINS, D. M.
CC       APPLICANT:  BANERJEE, A.
CC       APPLICANT:  deLISLE, G. W.
CC       APPLICANT:  WILSON, T. M.
CC       TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR DETECTING
CC       TITLE OF INVENTION:  AND TREATING MYCOBACTERIAL INFECTIONS USING AN inhA AGE
CC       NUMBER OF SEQUENCES:  14
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  MORRISON & FOERSTER
CC         STREET:  755 Page Mill Road
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304-1018
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/241,766
CC         FILING DATE:  12-MAY-1994
CC         CLASSIFICATION:  514
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  MONROY, GLADYS H.
CC         REGISTRATION NUMBER:  32,430
CC         REFERENCE/DOCKET NUMBER:  25237-20003.20
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 813-5600
CC         TELEFAX:  (415) 494-0792
CC         TELEX:  706141
CC     INFORMATION FOR SEQ ID NO:  9:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  262 amino acids
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CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
SQ   SEQUENCE   262 AA; 27864 MW; 329262 CN;

  Query Match           42.7%;  Score 748;  DB 1;  Length 262;
  Best Local Similarity  44.4%;  Pred. No. 1.79e-47;
  Matches   111;  Conservative   65;  Mismatches  71;  Indels   3;  Gaps   3;

Db       4 LSGKRILVTGVASKLSIAYGIAQAMHREGAELAFTYQNDKLKGRVEEFAAQLG-SDIVL- 61
           |  |  :: |:|:| |||:|:|  : : || | |||:::: :  :| :  ||  ::  |
Qy       4 LENKTYVIMGIANKRSIAFGVAKVLDQLGAKLVFTYRKERSRKELEKLLEQLNQPEAHLY 63

Db      62 QCDVAEDASIDTMFAELGKVWPKFDGFVHSIGFAPGDQLDGDYVNAVTREGFKIAHDISS 121
           | ||  |  :   | ::||   ::||  |||:||  ::| | : :: :|||| :|:|||| 
Qy      64 QIDVQSDEEVINGFEQIGKDVGNIDGVYHSIAFANMEDLRGRFSET-SREGFLLAQDISS 122

Db     122 YSFVAMAKACRSMLNPGSALLTLSYLGAERAIPNYNVMGLAKASLEANVRYMANAMGPEG 181
           ||:  :|   : ::  |:::: :|||:| |: ||||||:||||||||||:|:|  :|||: 
Qy     123 YSLTIVAHEAKKLMPEGGSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLGPDN 182

Db     182 VRVNAISAGPIRTLAASGIKDFRKMLAHCEAVTPIRRTVTIEDVGNSAAFLCSDLSAGIS 241
           :|||||||||||||:| |:  |  :|   |  :|::| |   :||::||:| ||||:|:: 
Qy     183 IRVNAISAGPIRTLSAKGVGGFNTILKEIEERAPLKRNVDQVEVGKTAAYLLSDLSSGVT 242

Db     242 GEVVHVDGGF 251
           || :|||:||
Qy     243 GENIHVDSGF 252


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ID   US-08-241-766-8     STANDARD;     PRT;   262 AA.
XX
AC   xxxxxx
XX
DT
XX
DE   Sequence 8, Application US/08241766
XX
CC    Sequence 8, Application US/08241766
CC    Patent No. 5686590
CC     GENERAL INFORMATION:
CC       APPLICANT:  JACOBS, W. R.
CC       APPLICANT:  COLLINS, D. M.
CC       APPLICANT:  BANERJEE, A.
CC       APPLICANT:  deLISLE, G. W.
CC       APPLICANT:  WILSON, T. M.
CC       TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR DETECTING
CC       TITLE OF INVENTION:  AND TREATING MYCOBACTERIAL INFECTIONS USING AN inhA AGENT
CC       NUMBER OF SEQUENCES:  14
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  MORRISON & FOERSTER
CC         STREET:  755 Page Mill Road
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304-1018
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/241,766
CC         FILING DATE:  12-MAY-1994
CC         CLASSIFICATION:  514
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  MONROY, GLADYS H.
CC         REGISTRATION NUMBER:  32,430
CC         REFERENCE/DOCKET NUMBER:  25237-20003.20
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 813-5600
CC         TELEFAX:  (415) 494-0792
CC         TELEX:  706141
CC     INFORMATION FOR SEQ ID NO:  8:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  262 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
SQ   SEQUENCE   262 AA; 27761 MW; 329911 CN;

  Query Match           41.8%;  Score 732;  DB 1;  Length 262;
  Best Local Similarity  43.8%;  Pred. No. 3.09e-46;
  Matches   110;  Conservative   65;  Mismatches  71;  Indels   5;  Gaps   5;

Db       4 LSGKRILVTGVASKLSIAYGIAQAMHREGAELAFTYQNDKLKGRVEEFAAQLGSSIV-L- 61
           |  |  :: |:|:| |||:|:|  : : || | |||:::: :  :| :  ||  :   |
Qy       4 LENKTYVIMGIANKRSIAFGVAKVLDQLGAKLVFTYRKERSRKELEKLLEQLNQPEAHLY 63

Db      62 PCDVAEDASIDAMFAELG-NVWPKFDGFVHSIGFAPGDQLDGDYVNAVTREGFKVAHDIS 120
             ||  |  :   | ::| :|  ::||  |||:||  ::| | : :: :|||| :|:|||
Qy      64 QIDVQSDEEVINGFEQIGKDV-GNIDGVYHSIAFANMEDLRGRFSET-SREGFLLAQDIS 121

Db     121 SYSFVAMAKACRTMLNPGSALLTLSYLGAERAIPNYNVMGLAKASLEANVRYMANAMGPE 180
           |||:  :|   : ::  |:::: :|||:| |: ||||||:||||||||||:|:|  :|||: 
Qy     122 SYSLTIVAHEAKKLMPEGGSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLGPD 181

Db     181 GVRVNAISAGPIRTLAASGIKDFRKMLAHCEAVTPIRRTVTIEDVGNSAAFLCSDLSAGI 240
           :|||||||||||||:| |:  |  :|   |  :|::| |   :||::||:| ||||:|:: 
Qy     182 NIRVNAISAGPIRTLSAKGVGGFNTILKEIEERAPLKRNVDQVEVGKTAAYLLSDLSSGV 241

Db     241 SGEVVHVDGGF 251
           :|| :|||:||
Qy     242 TGENIHVDSGF 252


RESULT    3
ID   US-08-241-766-6     STANDARD;     PRT;   269 AA.
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AC   xxxxxx
XX
DT
XX
DE   Sequence 6, Application US/08241766
XX
CC    Sequence 6, Application US/08241766
CC    Patent No. 5686590
CC     GENERAL INFORMATION:
CC       APPLICANT:  JACOBS, W. R.
CC       APPLICANT:  COLLINS, D. M.
CC       APPLICANT:  BANERJEE, A.
CC       APPLICANT:  deLISLE, G. W.
CC       APPLICANT:  WILSON, T. M.
CC       TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR DETECTING
CC       TITLE OF INVENTION:  AND TREATING MYCOBACTERIAL INFECTIONS USING AN inhA AGE
CC       NUMBER OF SEQUENCES:  14
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  MORRISON & FOERSTER
CC         STREET:  755 Page Mill Road
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304-1018
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/241,766
CC         FILING DATE:  12-MAY-1994
CC         CLASSIFICATION:  514
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  MONROY, GLADYS H.
CC         REGISTRATION NUMBER:  32,430
```

```
CC         REFERENCE/DOCKET NUMBER:  25237-20003.20
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 813-5600
CC         TELEFAX:  (415) 494-0792
CC         TELEX:  706141
CC     INFORMATION FOR SEQ ID NO:  6:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  269 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
SQ   SEQUENCE   269 AA; 28527 MW; 364311 CN;

  Query Match           20.4%;  Score 357;  DB 1;  Length 269;
  Best Local Similarity  35.4%;  Pred. No. 1.11e-17;
  Matches    93;  Conservative   59;  Mismatches  92;  Indels  19;  Gaps  14;

Db       5 LEGKRILVTGIITDSSIAFHIAKVAQEAGAELVLT-GFDRL-KLVKRIADRLPKP-APLL 61
Qy       4 LENKTYVIMGIANKRSIAFGVAKVLDQLGAKLVFTYRKERSRKELEKLLEQLNQPEAHLY 63

Db      62 ELDVQNEEHLSTLADRITAEIGEGNKIDGVVHSIGFMPQSGMGINPFFDAPYEDVSKGIH 121
Qy      64 QIDVQSDEEVINGFEQIGKDVG--N-IDGVYHSIAFANMEDL-RGRFSETSREGFLLAQD 119

Db     122 ISAYSYASLAKAVLPIMNPGGGIVGMDF-DPTRAMPAYNWMTVAKSALESVNRFVAREAG 180
Qy     120 ISSYSLTIVAHEAKKLMPEGGSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLG 179

Db     181 KVGVRSNLVAAGPIRTLAMSAIVGGALGDEAGQQMQLLEEGWDQRAPLGWNMKDPTPVAK 240
Qy     180 PDNIRVNAISAGPIRTLSAKG-VGG-F-N-T-----ILKEI-EERAPLKRNV-DQVEVGK 228

Db     241 TVCALLSDWLPATTGTVIYADGG 263
Qy     229 TAAYLLSDLSSGVTGENIHVDSG 251


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ID   US-08-241-766-7     STANDARD;     PRT;   269 AA.
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AC   XXXXXX
XX
DT
XX
DE   Sequence 7, Application US/08241766
XX
CC    Sequence 7, Application US/08241766
CC    Patent No. 5686590
CC     GENERAL INFORMATION:
CC       APPLICANT:  JACOBS, W. R.
CC       APPLICANT:  COLLINS, D. M.
CC       APPLICANT:  BANERJEE, A.
CC       APPLICANT:  deLISLE, G. W.
CC       APPLICANT:  WILSON, T. M.
CC       TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR DETECTING
CC       TITLE OF INVENTION:  AND TREATING MYCOBACTERIAL INFECTIONS USING AN inhA AGENT
CC       NUMBER OF SEQUENCES:  14
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  MORRISON & FOERSTER
CC         STREET:  755 Page Mill Road
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304-1018
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/241,766
CC         FILING DATE:  12-MAY-1994
CC         CLASSIFICATION:  514
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  MONROY, GLADYS H.
CC         REGISTRATION NUMBER:  32,430
CC         REFERENCE/DOCKET NUMBER:  25237-20003.20
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 813-5600
CC         TELEFAX:  (415) 494-0792
CC         TELEX:  706141
CC     INFORMATION FOR SEQ ID NO:  7:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  269 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
SQ   SEQUENCE   269 AA; 28511 MW; 362901 CN;

  Query Match           20.3%;  Score 355;  DB 1;  Length 269;
  Best Local Similarity  35.0%;  Pred. No. 1.57e-17;
  Matches    92;  Conservative   60;  Mismatches  92;  Indels  19;  Gaps  14;

Db       5 LEGKRILVTGIITDSSIAFHIAKVAQEAGAELVLT-GFDRL-KLVKRIADRLPKP-APLL 61
Qy       4 LENKTYVIMGIANKRSIAFGVAKVLDQLGAKLVFTYRKERSRKELEKLLEQLNQPEAHLY 63

Db      62 ELDVQNEEHLSTLADRITAEIGEGNKIDGVVHAIGFMPQSGMGINPFFDAPYEDVSKGIH 121
Qy      64 QIDVQSDEEVINGFEQIGKDVG--N-IDGVYHSIAFANMEDL-RGRFSETSREGFLLAQD 119

Db     122 ISAYSYASLAKAVLPIMNPGGGIVGMDF-DPTRAMPAYNWMTVAKSALESVNRFVAREAG 180
Qy     120 ISSYSLTIVAHEAKKLMPEGGSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLG 179

Db     181 KVGVRSNLVAAGPIRTLAMSAIVGGALGDEAGQQMQLLEEGWDQRAPLGWNMKDPTPVAK 240
Qy     180 PDNIRVNAISAGPIRTLSAKG-VGG-F-N-T-----ILKEI-EERAPLKRNV-DQVEVGK 228

Db     241 TVCALLSDWLPATTGTVIYADGG 263
Qy     229 TAAYLLSDLSSGVTGENIHVDSG 251


RESULT    5
ID   US-08-241-766-4     STANDARD;     PRT;   269 AA.
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AC   XXXXXX
XX
DT
XX
DE   Sequence 4, Application US/08241766
XX
CC    Sequence 4, Application US/08241766
CC    Patent No. 5686590
CC     GENERAL INFORMATION:
CC       APPLICANT:  JACOBS, W. R.
CC       APPLICANT:  COLLINS, D. M.
CC       APPLICANT:  BANERJEE, A.
CC       APPLICANT:  deLISLE, G. W.
CC       APPLICANT:  WILSON, T. M.
CC       TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR DETECTING
CC       TITLE OF INVENTION:  AND TREATING MYCOBACTERIAL INFECTIONS USING AN inhA AGE
CC       NUMBER OF SEQUENCES:  14
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  MORRISON & FOERSTER
CC         STREET:  755 Page Mill Road
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304-1018
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
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CC          SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC        CURRENT APPLICATION DATA:
CC          APPLICATION NUMBER:  US/08/241,766
CC          FILING DATE:  12-MAY-1994
CC          CLASSIFICATION:  514
CC        ATTORNEY/AGENT INFORMATION:
CC          NAME:  MONROY, GLADYS H.
CC          REGISTRATION NUMBER:  32,430
CC          REFERENCE/DOCKET NUMBER:  25237-20003.20
CC        TELECOMMUNICATION INFORMATION:
CC          TELEPHONE:  (415) 813-5600
CC          TELEFAX:  (415) 494-0792
CC          TELEX:  706141
CC      INFORMATION FOR SEQ ID NO:  4:
CC        SEQUENCE CHARACTERISTICS:
CC          LENGTH:  269 amino acids
CC          TYPE:  amino acid
CC          STRANDEDNESS:  single
CC          TOPOLOGY:  linear
SQ   SEQUENCE   269 AA; 28514 MW; 350722 CN;

  Query Match           19.5%;  Score 341;  DB 1;  Length 269;
  Best Local Similarity  33.5%;  Pred. No. 1.72e-16;
  Matches    89;  Conservative   65;  Mismatches  93;  Indels  19;  Gaps  14;

Db       5 LDGKRILVSGIITDSSIAFHIARVAQEQGAQLVLT-GFDRLRL-IQRITDRL-PAKAPLL 61
           |: |  :: ||    |||| :|:| :: || ||:|   :| |  :::: ::|  : | |
Qy       4 LENKTYVIMGIANKRSIAFGVAKVLDQLGAKLVFTYRKERSRKELEKLLEQLNQPEAHLY 63

Db      62 ELDVQNEEHLASLAGRVTEAIGAGNKLDGVVHSIGFMPQTGMGINPFFDAPYADVSKGIH 121
           ::|||::| : :  ::  :|  | :||| |||:|     :    | :::      :
Qy      64 QIDVQSDEEVINGFEQIGKDVG--N-IDGVYHSIAFANMEDL-RGRFSETSREGFLLAQD 119

Db     122 ISAYSYASMAKALLPIMNPGGSIVGMDF-DPSRAMPAYNWMTVAKSALESVNRFVAREAG 180
           ||:|| : :|     :|  |||||:  :      |:  || | |||::||:  :::| : |
Qy     120 ISSYSLTIVAHEAKKLMPEGGSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLG 179

Db     181 KYGVRSNLVGAGPIRTLAMSAIVGGALGEEAGAQIQLLEEGWDQRAPIGWNMKDATPVAK 240
             :| | ::|||||||:  : ||| :  ::   |  | |  ::|||: :|: |   |:|
Qy     180 PDNIRVNAISAGPIRTLSAKG-VGG-F--NT---I--LKEI-EERAPLKRNV-DQVEVGK 228

Db     241 TVCALLSDWLPATTGDIIYADGGAHT 266
           |   ||||  :: ||: |  |:| |:
Qy     229 TAAYLLSDLSSGVTGENIHVDSGFHA 254


RESULT    6
ID   US-08-241-766-5     STANDARD;     PRT;   269 AA.
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AC   xxxxxx
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DT
XX
DE   Sequence 5, Application US/08241766
XX
CC    Sequence 5, Application US/08241766
CC    Patent No. 5686590
CC     GENERAL INFORMATION:
CC       APPLICANT:  JACOBS, W. R.
CC       APPLICANT:  COLLINS, D. M.
CC       APPLICANT:  BANERJEE, A.
CC       APPLICANT:  deLISLE, G. W.
CC       APPLICANT:  WILSON, T. M.
CC       TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR DETECTING
CC       TITLE OF INVENTION:  AND TREATING MYCOBACTERIAL INFECTIONS USING AN inhA AGENT
CC       NUMBER OF SEQUENCES:  14
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  MORRISON & FOERSTER
CC         STREET:  755 Page Mill Road
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304-1018
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/241,766
CC         FILING DATE:  12-MAY-1994
CC         CLASSIFICATION:  514
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  MONROY, GLADYS H.
CC         REGISTRATION NUMBER:  32,430
CC         REFERENCE/DOCKET NUMBER:  25237-20003.20
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 813-5600
CC         TELEFAX:  (415) 494-0792
CC         TELEX:  706141
CC     INFORMATION FOR SEQ ID NO:  5:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  269 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
SQ   SEQUENCE   269 AA; 28512 MW; 347982 CN;

  Query Match           19.4%;  Score 340;  DB 1;  Length 269;
  Best Local Similarity  33.1%;  Pred. No. 2.04e-16;
  Matches    88;  Conservative   66;  Mismatches  93;  Indels  19;  Gaps  14;

Db       5 LDGKRILVSGIITDSSIAFHIARVAQEQGAQLVLT-GFDRLRL-IQRITDRL-PAKAPLL 61
           |: |  :: ||    |||| :|:| :: || ||:|   :| |  :::: ::|  : | |
Qy       4 LENKTYVIMGIANKRSIAFGVAKVLDQLGAKLVFTYRKERSRKELEKLLEQLNQPEAHLY 63

Db      62 ELDVQNEEHLASLAGRVTEAIGAGNKLDGVVHAIGFMPQTGMGINPFFDAPYADVSKGIH 121
           ::|||::| : :  ::  :|  | :||| |:|:|     :    | :::      :
Qy      64 QIDVQSDEEVINGFEQIGKDVG--N-IDGVYHSIAFANMEDL-RGRFSETSREGFLLAQD 119

Db     122 ISAYSYASMAKALLPIMNPGGSIVGMDF-DPSRAMPAYNWMTVAKSALESVNRFVAREAG 180
           ||:|| : :|     :|  |||||:  :      |:  || | |||::||:  :::| : |
Qy     120 ISSYSLTIVAHEAKKLMPEGGSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLG 179

Db     181 KYGVRSNLVAAGPIRTLAMSAIVGGALGEEAGAQIQLLEEGWDQRAPIGWNMKDATPVAK 240
               :| | ::|||||||:  : ||| :  ::   |  | |  ::|||: :|: |   |:|
Qy     180 PDNIRVNAISAGPIRTLSAKG-VGG-F--NT---I--LKEI-EERAPLKRNV-DQVEVGK 228

Db     241 TVCALLSDWLPATTGDIIYADGGAHT 266
           |   ||||  :: ||: |  |:| |:
Qy     229 TAAYLLSDLSSGVTGENIHVDSGFHA 254


RESULT    7
ID   US-08-241-766-14     STANDARD;     PRT;   269 AA.
XX
AC   xxxxxx
XX
DT
XX
DE   Sequence 14, Application US/08241766
XX
CC    Sequence 14, Application US/08241766
CC    Patent No. 5686590
CC     GENERAL INFORMATION:
CC       APPLICANT:  JACOBS, W. R.
CC       APPLICANT:  COLLINS, D. M.
CC       APPLICANT:  BANERJEE, A.
CC       APPLICANT:  deLISLE, G. W.
CC       APPLICANT:  WILSON, T. M.
CC       TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR DETECTING
CC       TITLE OF INVENTION:  AND TREATING MYCOBACTERIAL INFECTIONS USING AN  nhA AGE
CC       NUMBER OF SEQUENCES:  14
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  MORRISON & FOERSTER
CC         STREET:  755 Page Mill Road
```

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CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304-1018
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/241,766
CC         FILING DATE:  12-MAY-1994
CC         CLASSIFICATION:  514
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  MONROY, GLADYS H.
CC         REGISTRATION NUMBER:  32,430
CC         REFERENCE/DOCKET NUMBER:  25237-20003.20
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 813-5600
CC         TELEFAX:  (415) 494-0792
CC         TELEX:  706141
CC     INFORMATION FOR SEQ ID NO:  14:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  269 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   269 AA; 28512 MW; 347982 CN;

  Query Match           19.4%;  Score 340;  DB 1;  Length 269;
  Best Local Similarity  33.1%;  Pred. No. 2.04e-16;
  Matches    88;  Conservative   66;  Mismatches  93;  Indels  19;  Gaps  14;

Db       5 LDGKRILVSGIITDSSIAFHIARVAQEQGAQLVLT-GFDRLRL-IQRITDRL-PAKAPLL 61
           |: |  :: ||    |||| :|:| :: || ||:|   :| |  :::: ::|  : | |
Qy       4 LENKTYVIMGIANKRSIAFGVAKVLDQLGAKLVFTYRKERSRKELEKLLEQLNQPEAHLY 63

Db      62 ELDVQNEEHLASLAGRVTEAIGAGNKLDGVVHAIGFMPQTGMGINPFFDAPYADVSKGIH 121
           ::|||::| : :   ::   :|  | :||| |:|:|     :    | :::      :
Qy      64 QIDVQSDEEVINGFEQIGKDVG--N-IDGVYHSIAFANMEDL-RGRFSETSREGFLLAQD 119

Db     122 ISAYSYASMAKALLPIMNPGGSIVGMDF-DPSRAMPAYNWMTVAKSALESVNRFVAREAG 180
           ||:|| : :|     :|  |||||:  :     |:  || | |||::||:  :::| : |
Qy     120 ISSYSLTIVAHEAKKLMPEGGSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLG 179

Db     181 KYGVRSNLVAAGPIRTLAMSAIVGGALGEEAGAQIQLLEEGWDQRAPIGWNMKDATPVAK 240
             :| | ::|||||||:  : ||| :  ::   |  | |  ::|||: :|: |   |:|
Qy     180 PDNIRVNAISAGPIRTLSAKG-VGG-F--NT---I--LKEI-EERAPLKRNV-DQVEVGK 228

Db     241 TVCALLSDWLPATTGDIIYADGGAHT 266
           |   ||||  :: ||: |  |:| |:
Qy     229 TAAYLLSDLSSGVTGENIHVDSGFHA 254


RESULT    8
ID   US-08-762-129-3     STANDARD;     PRT;   244 AA.
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AC   xxxxxx
XX
DT
XX
DE   Sequence 3, Application US/08762129
XX
CC    Sequence 3, Application US/08762129
CC    Patent No. 5756299
CC     GENERAL INFORMATION:
CC       APPLICANT:  Hillman, Jennifer L.
CC       APPLICANT:  Goli, Surya K.
CC       TITLE OF INVENTION:  A NOVEL HUMAN CARBONYL REDUCTASE
CC       NUMBER OF SEQUENCES:  5
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Incyte Pharmaceuticals, Inc.
CC         STREET:  3174 Porter Drive
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Diskette
CC         COMPUTER:  IBM Compatible
CC         OPERATING SYSTEM:  DOS
CC         SOFTWARE:  FastSEQ for Windows Version 2.0
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/762,129
CC         FILING DATE:  Herewith
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:
CC         FILING DATE:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Billings, Lucy J.
CC         REGISTRATION NUMBER:  36,749
CC         REFERENCE/DOCKET NUMBER:  PF-0171 US
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  415-855-0555
CC         TELEFAX:  415-845-4166
CC         TELEX:
CC     INFORMATION FOR SEQ ID NO:  3:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  244 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       IMMEDIATE SOURCE:
CC         LIBRARY:  GenBank
CC         CLONE:  416425
SQ   SEQUENCE   244 AA; 25986 MW; 333095 CN;

  Query Match           12.8%;  Score 224;  DB 1;  Length 244;
  Best Local Similarity  24.2%;  Pred. No. 5.81e-08;
  Matches    44;  Conservative   56;  Mismatches  78;  Indels   4;  Gaps   3;

Db      61 LGDWEATERALGGVGPVDLLVNNAAVA-LMQPFLDTTKEVFDRSFNVNLRSVFQVSQIVA 119
           :   |   : :| :  |   :  | :  |   | :|::| |  : :::  |:  |::
Qy      74 INGFEQIGKDVGNIDGVYHSIAFANMEDLRGRFSETSREGFLLAQDISSYSLTIVAHEAK 133

Db     120 RSMIERGVPGSIVNVSSMVSHVTYPGLAAYSSTKGAMTMLTKSMAMELGPHKIRVNSVNP 179
           : | | |  |||  : : :  :       : :|:::    | :|::||| :||||:::
Qy     134 KLMPE-G--GSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLGPDNIRVNAISA 190

Db     180 TVVLTAMGRSVTSDPELARKLKERHPMRKFAEVEDVVNSILFLLSDRSASTSGSSIFVDA 239
           : |  :::| :   : : : || |:::  :  :| ::  :|||| |:: :| :| ||:
Qy     191 GPIRTLSAKGVGGFNTILKEIEERAPLKRNVDQVEVGKTAAYLLSDLSSGVTGENIHVDS 250

Db     240 GY 241
           |:
Qy     251 GF 252


RESULT    9
ID   US-08-762-129-4     STANDARD;     PRT;   244 AA.
XX
AC   xxxxxx
XX
DT
XX
DE   Sequence 4, Application US/08762129
XX
CC    Sequence 4, Application US/08762129
CC    Patent No. 5756299
CC     GENERAL INFORMATION:
CC       APPLICANT:  Hillman, Jennifer L.
CC       APPLICANT:  Goli, Surya K.
CC       TITLE OF INVENTION:  A NOVEL HUMAN CARBONYL REDUCTASE
CC       NUMBER OF SEQUENCES:  5
CC       CORRESPONDENCE ADDRESS:
```

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CC         ADDRESSEE:  Incyte Pharmaceuticals, Inc.
CC         STREET:  3174 Porter Drive
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Diskette
CC         COMPUTER:  IBM Compatible
CC         OPERATING SYSTEM:  DOS
CC         SOFTWARE:  FastSEQ for Windows Version 2.0
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/762,129
CC         FILING DATE:  Herewith
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:
CC         FILING DATE:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Billings, Lucy J.
CC         REGISTRATION NUMBER:  36,749
CC         REFERENCE/DOCKET NUMBER:  PF-0171 US
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  415-855-0555
CC         TELEFAX:  415-845-4166
CC         TELEX:
CC     INFORMATION FOR SEQ ID NO:  4:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  244 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       IMMEDIATE SOURCE:
CC         LIBRARY:  GenBank
CC         CLONE:  50004
SQ   SEQUENCE   244 AA; 25958 MW; 323866 CN;

  Query Match           12.5%;  Score 219;  DB 1;  Length 244;
  Best Local Similarity  25.3%;  Pred. No. 1.32e-07;
  Matches    46;  Conservative   55;  Mismatches  77;  Indels   4;  Gaps   3;

Db     61 LGDWDATEKALGGIGPVDLLVNNAALVIMQ-PFLEVTKEAFDRSFSVNLRSVFQVSQMVA 119
           :   :   | :| | |   :  | :  ::  | | ::|:|  :  ::  |:  |::  |
Qy     74 INGFEQIGKDVGNIDGVYHSIAFANMEDLRGRFSETSREGFLLAQDISSYSLTIVAH-EA 132

Db    120 RDMINRGVPGSIVNVSSMVAHVTFPNLITYSSTKGAMTMLTKAMAMELGPHKIRVNSVNP 179
          : ::  |  ||||  : : :  |    : :|:::    | :|::||| :||||:::
Qy    133 KKLMPEG--GSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLGPDNIRVNAISA 190

Db    180 TVVLTDMGKKVSADPEFARKLKERHPLRKFAEVEDVVNSILFLLSDRSASTSGGGILVDA 239
            : |  :| |::   : : : || ||::  :  :| ::  :|||| |:: :|  | ||:
Qy    191 GPIRTLSAKGVGGFNTILKEIEERAPLKRNVDQVEVGKTAAYLLSDLSSGVTGENIHVDS 250

Db    240 GY 241
          |:
Qy    251 GF 252


RESULT   10
ID   US-08-762-129-1     STANDARD;     PRT;   244 AA.
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AC   xxxxxx
XX
DT
XX
DE   Sequence 1, Application US/08762129
XX
CC    Sequence 1, Application US/08762129
CC    Patent No. 5756299
CC     GENERAL INFORMATION:
CC       APPLICANT:  Hillman, Jennifer L.
CC       APPLICANT:  Goli, Surya K.
CC       TITLE OF INVENTION:  A NOVEL HUMAN CARBONYL REDUCTASE
CC       NUMBER OF SEQUENCES:  5
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Incyte Pharmaceuticals, Inc.
CC         STREET:  3174 Porter Drive
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Diskette
CC         COMPUTER:  IBM Compatible
CC         OPERATING SYSTEM:  DOS
CC         SOFTWARE:  FastSEQ for Windows Version 2.0
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/762,129
CC         FILING DATE:  Herewith
CC         CLASSIFICATION:  514
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER:
CC         FILING DATE:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Billings, Lucy J.
CC         REGISTRATION NUMBER:  36,749
CC         REFERENCE/DOCKET NUMBER:  PF-0171 US
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  415-855-0555
CC         TELEFAX:  415-845-4166
CC         TELEX:
CC     INFORMATION FOR SEQ ID NO:  1:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  244 amino acids
CC         TYPE:  amino acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       IMMEDIATE SOURCE:
CC         LIBRARY:  Consensus
CC         CLONE:  Consensus
SQ   SEQUENCE   244 AA; 25907 MW; 324373 CN;

  Query Match           12.0%;  Score 210;  DB 1;  Length 244;
  Best Local Similarity  26.2%;  Pred. No. 5.72e-07;
  Matches    48;  Conservative   53;  Mismatches  76;  Indels   6;  Gaps   5;

Db     61 LGDWEATERALGSVGPVDLLVNNAAVALLQ-PFLEVTKEAFDRSFEVNLRAVIQVSQIVA 119
           :   |   : :|::  |   :  | :  |:  | | ::|:|  : :::  ::  |::  |
Qy     74 INGFEQIGKDVGNIDGVYHSIAFANMEDLRGRFSETSREGFLLAQDISSYSLTIVAHE-A 132

Db    120 RGLIARGVPGAIVNVSSQCSQRAVTNHSVYCSTKGALDMLTKVMALELGPHKIRVNAVNP 179
          : |:: |  |:||  :   :: || | :|   :|::|:   | :||:||| :|||||:::
Qy    133 KKLMPEG--GSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLGPDNIRVNAISA 190

Db    180 TVVMTSMGQATWSDPHKA-KTMXNRIPXGKFAEVEHVVNAILFLLSDRSGMTTGSTLPVE 238
            : |  : :  :  :   | : :| |  :  :   | ::  :|||| |:  ||  : |:
Qy    191 GPIRTLSAKGV-GGFNTILKEIEERAPLKRNVDQVEVGKTAAYLLSDLSSGVTGENIHVD 249

Db    239 GGF 241
            :||
Qy    250 SGF 252


RESULT   11
ID   US-08-594-808B-7     STANDARD;     PRT;   256 AA.
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AC   xxxxxx
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DT
XX
DE   Sequence 7, Application US/08594808B
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CC    Sequence 7, Application US/08594808B
CC    Patent No. 5804423
CC     GENERAL INFORMATION:
CC       APPLICANT:  Klasen, Ralf
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CC       APPLICANT:  Bringer-Meyer, Stephanie
CC       APPLICANT:  Sahm, Hermann
CC       APPLICANT:  Hollenberg, Cornelies P
CC       TITLE OF INVENTION:  MICROBIOLOGICAL METHOD OF MAKING
CC       TITLE OF INVENTION:  5-KETOGLUCONATE
CC       NUMBER OF SEQUENCES:  7
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  The Firm of Karl F. Ross, PC
CC         STREET:  5676 Riverdale Ave.
CC         CITY:  Bronx
CC         STATE:  New York
CC         COUNTRY:  USA
CC         ZIP:  10471-0900
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/594,808B
CC         FILING DATE:  07-FEB-1995
CC         CLASSIFICATION:  435
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Myers, Jonathan E
CC         REGISTRATION NUMBER:  26,963
CC         REFERENCE/DOCKET NUMBER:  19893
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (718) 884-6600
CC         TELEFAX:  718/601-1099
CC         TELEX:  620428
CC     INFORMATION FOR SEQ ID NO:  7:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  256 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   256 AA; 27256 MW; 327271 CN;

  Query Match            9.8%;  Score 171;  DB 1;  Length 256;
  Best Local Similarity  24.0%;  Pred. No. 2.99e-04;
  Matches    59;  Conservative   74;  Mismatches 100;  Indels  13;  Gaps  13;

Db      15 LVTGASRGIGLTLAKGLARYGAEVVLNGRNAESLDSAQSGFEA-EGLKASTAVFDVTDQD 73
           :  :  |:|:: :|| | : || :|:  |:  |    :  :|  :   |    :||  ::
Qy      12 MGIANKRSIAFGVAKVLDQLGAKLVFTYRKERSRKELEKLLEQLNQPEAHLYQIDVQSDE 71

Db      74 AVIDGVAAIERDMGPIDILINNAGIQRRAPLEE-FSRKDWDD-LMSTNVNA-VF-FVGQA 129
             ||:|   | :|:| || : :: ::    |   ||   ::  |:: :::: : :|::
Qy      72 EVINGFEQIGKDVGNIDGVYHSIAFANMEDLRGRFSETSREGFLLAQDISSYSLTIVAHE 131

Db     130 VARHMIPRGRGKIVNICSVQSELARPGIAPYTATKGAVKNLTKGMATDWGRHGLQINGLA 189
           |: ::| | | ||    : :|:|         :|:::    | :| | |   :::|:::
Qy     132 -AKKLMPEG-GSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLGPDNIRVNAIS 189

Db     190 PGYFATEMTERLVAD-EEFTDWLCKRTPAGRWGQVEEL-VG-AAVFLSSRASSFVNGQVL 246
           :| : | :: : |:  : :   :  |:|  ::  |::: || :| :| |  || | |: :
Qy     190 AGPIRT-LSAKGVGGFNTILKEIEERAPL-KRN-VDQVEVGKTAAYLLSDLSSGVTGENI 246

Db     247 MVDGGI 252
             ||:|:
Qy     247 HVDSGF 252


RESULT   12
ID   US-08-375-962B-13     STANDARD;     PRT;   244 AA.
XX
AC   xxxxxx
XX
DT
XX
DE   Sequence 13, Application US/08375962B
XX
CC    Sequence 13, Application US/08375962B
CC    Patent No. 5731195
CC    GENERAL INFORMATION:
CC      APPLICANT:  SIMON, ANDRAS; HELLMAN, ULF; WERNSTEDT,
CC      APPLICANT:  CHRISTER; ERIKSSON, ULF.
CC      TITLE OF INVENTION:  Isolated Nucleic Acid Molecule
CC      TITLE OF INVENTION:  Which Codes for A 32 kDa Protein Having 11-CIS Retinol
CC      TITLE OF INVENTION:  Dehydrogenase Activity, and Which Associates With P63,
CC      TITLE OF INVENTION:  a Portion of a Retinol Binding Protein Receptor
CC      NUMBER OF SEQUENCES:  14
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Felfe & Lynch
CC        STREET:  805 Third Avenue
CC        CITY:  New York City
CC        STATE:  New York
CC        ZIP:  10022
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Diskette, 3.5 inch, 144 kb storage
CC        COMPUTER:  IBM
CC        OPERATING SYSTEM:  PC-DOS
CC        SOFTWARE:  Wordperfect (ASCII standard)
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/375,962B
CC        FILING DATE:  20-January-1995
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  08/258,418
CC        FILING DATE:  6-October-1994
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Pasqualini, Patricia A.
CC        REGISTRATION NUMBER:  34,894
CC        REFERENCE/DOCKET NUMBER:  LUD 5372.1 CIP
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 688-9200
CC        TELEFAX:  (212) 838-3884
CC    INFORMATION FOR SEQ ID NO:  13:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  244 amino acids
CC        TYPE:  amino acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  protein
CC      FEATURE:
CC        NAME/KEY:  E.coli 3-oxoacyl[acyl carrier protein]
CC        NAME/KEY:  reductase (FABG)
SQ   SEQUENCE   244 AA; 25546 MW; 277421 CN;

  Query Match            9.4%;  Score 164;  DB 1;  Length 244;
  Best Local Similarity  22.4%;  Pred. No. 9.02e-04;
  Matches    57;  Conservative   76;  Mismatches 110;  Indels  12;  Gaps  12;

Db       1 MNFEGKIALVTG-AS-RGIGRAIAETLAARGGKVIGTATSENGAQAISDYLGA-N-GKG- 55
             :|:| |  :: | |: |:|: ::|  |   |:|:: |   | :  :  | |  :
Qy       2 LNLENKTYVIMGIANKRSIAFGVAKVLDQLGAKLVFTYRKERSRKELEKLLEQLNQPEAH 61

Db      56 L-MLNVTDPASIESVLEKIRAEFGEVDILVNNAGITR-DNLLMRMKDEEWND-IIETNLS 112
           |  ::|     : : :| |  : |::| : :: :::  ::|  |  :  ::  ::  ::|
Qy      62 LYQIDVQSDEEVINGFEQIGKDVGNIDGVYHSIAFANMEDLRGRFSETSREGFLLAQDIS 121

Db     113 SVFRLSKAVMRAMMKKRHG-RIITIGSVVGTMGNGGQANYAAAKAGLIGFSKSLAREVAS 171
           | : |:     |:: :  |  |::   : |  :        : |||:| :  | || ::::
Qy     122 S-YSLTIVAHEAKKLMPEGGSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLGP 180

Db     172 RGITVNVVAPGFIETDMTRALSD-DQRA-GILAQVPAGRLGGAQEIANAVAFLASDEAAY 229
             | || :::| | |  ::::::  :     |  : |  |     |:::: |:| || ::
Qy     181 DNIRVNAISAGPIRTLSAKGVGGFNTILKEIEERAPLKRNVDQVEVGKTAAYLLSDLSSG 240

Db     230 ITGETLHVNGGMYMV 244
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Qy     241 VTGENIHVDSGFHAI 255


RESULT   13
ID   5229279-7     STANDARD;     PRT;   266 AA.
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AC   xxxxxx
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DT   01-JAN-1900
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DE   Patent No. 5229279.
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CC   Patent No. 5229279
CC       APPLICANT: PEOPLES, OLIVER P.;SINSKEY,ANTHONY J.
CC       TITLE OF INVENTION: METHOD FOR PRODUCING NOVEL POLYESTER
CC   BIOPOLYMERS
CC       NUMBER OF SEQUENCES: 8
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/07/556,535
CC         FILING DATE: 13-AUG-1990
CC       PRIOR APPLICATION DATA:
CC         APPLICATION NUMBER: 67,695
CC         FILING DATE: 29-AUG-1987
CC   SEQ ID NO:7:
CC         LENGTH: 246
SQ   SEQUENCE   266 AA; 28572 MW; 399914 CN;

  Query Match             8.1%;  Score 142;  DB 3;  Length 246;
  Best Local Similarity  22.6%;  Pred. No. 2.73e-02;
  Matches    42;  Conservative   60;  Mismatches  74;  Indels  10;  Gaps   9;

Db     66 DSTKTAFDKVKSEVGEVDVLINNAGITRDVVFR-KMTRADWDA-VIDTNLTS--LFNVTK 121
Qy     71 EEVINGFEQIGKDVGNIDGVYHSIAFANMEDLRGRFSETSREGFLLAQDISSYSLTIVAH 130

Db    122 QVIDGMADRGWGRIVNISSVNGQKGQFGQTNYSTAKAGLHGFTMALAQEVATKGVTVNTV 181
Qy    131 EAKKLMPE-G-GSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLGPDNIRVNAI 188

Db    182 SPGYIATDMVKAIRQ-D-VLDKIVATIPVKRLGLPQ-EIASICAWLSSEESGFSTGADFS 238
Qy    189 SAGPIRTLSAKGVGGFNTILKEIEERAPLKR-NVDQVEVGKTAAYLLSDLSSGVTGENIH 247

Db    239 LNGGLH 244
Qy    248 VDSGFH 253


RESULT   14
ID   US-08-241-766-13     STANDARD;     PRT;   247 AA.
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AC   xxxxxx
XX
DT
XX
DE   Sequence 13, Application US/08241766
XX
CC    Sequence 13, Application US/08241766
CC    Patent No. 5686590
CC     GENERAL INFORMATION:
CC       APPLICANT:  JACOBS, W. R.
CC       APPLICANT:  COLLINS, D. M.
CC       APPLICANT:  BANERJEE, A.
CC       APPLICANT:  deLISLE, G. W.
CC       APPLICANT:  WILSON, T. M.
CC       TITLE OF INVENTION:  METHODS AND COMPOSITIONS FOR DETECTING
CC       TITLE OF INVENTION:  AND TREATING MYCOBACTERIAL INFECTIONS USING AN inhA AGENT
CC       NUMBER OF SEQUENCES:  14
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  MORRISON & FOERSTER
CC         STREET:  755 Page Mill Road
CC         CITY:  Palo Alto
CC         STATE:  CA
CC         COUNTRY:  USA
CC         ZIP:  94304-1018
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  US/08/241,766
CC         FILING DATE:  12-MAY-1994
CC         CLASSIFICATION:  514
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  MONROY, GLADYS H.
CC         REGISTRATION NUMBER:  32,430
CC         REFERENCE/DOCKET NUMBER:  25237-20003.20
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (415) 813-5600
CC         TELEFAX:  (415) 494-0792
CC         TELEX:  706141
CC     INFORMATION FOR SEQ ID NO:  13:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  247 amino acids
CC         TYPE:  amino acid
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  protein
SQ   SEQUENCE   247 AA; 25665 MW; 295036 CN:

  Query Match             6.7%;  Score 118;  DB 1;  Length 247;
  Best Local Similarity  18.2%;  Pred. No. 1.00e+00;
  Matches    34;  Conservative   60;  Mismatches  87;  Indels   6;  Gaps   5;

Db     61 DVTDSDAVDRAFTAVEEHQGPVEVLVSNAGLSA-DAFLMRMTEEKFEK-VINANLTG-AF 117
Qy     66 DVQSDEEVINGFEQIGKDVGNIDGVYHSIAFANMEDLRGRFSETSREGFLLAQDISSYSL 125

Db    118 RVAQRASRSMQRNKFGRMIFIGSVSGSWGIGNQANYAASKAGVIGMARSIARELSKANVT 177
Qy    126 TIVAHEAKKLMPEG-GSIVATTYLGGEFAVQNYNVMGVAKASLEANVKYLALDLGPDNIR 184

Db    178 ANVVAPGYIDTDMTRALD--ERIQQGALQFIPAKRVGTPAEVAGVVSFLASEDASYISGA 235
Qy    185 VNAISAGPIRTLSAKGVGGFNTILKEIEERAPLKRNVDQVEVGKTAAYLLSDLSSGVTGE 244

Db    236 VIPVDGG 242
Qy    245 NIHVDSG 251


RESULT   15
ID   US-08-137-175A-6     STANDARD;     PRT;   299 AA.
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AC   xxxxxx
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DT
XX
DE   Sequence 6, Application US/08137175A
XX
CC    Sequence 6, Application US/08137175A
CC    Patent No. 5777095
CC     GENERAL INFORMATION:
CC       APPLICANT:  BARBOUR, Alan G.
CC       APPLICANT:  BERGSTROEM, Sven
CC       APPLICANT:  HANSSON, Lennart
CC       TITLE OF INVENTION:  IMPROVEMENT IN BORRELIA BURGDORFERI AND
CC       TITLE OF INVENTION:  PROPHYLAXIS
CC       NUMBER OF SEQUENCES:  22
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  BROWDY AND NEIMARK
CC         STREET:  419 Seventh Street, N.W., Suite 300
CC         CITY:  Washington
CC         STATE:  D.C.
CC         COUNTRY:  USA
CC         ZIP:  20004
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.25
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CC CURRENT APPLICATION DATA:
CC APPLICATION NUMBER: US/08/137,175A
CC FILING DATE: 26-OCT-1993
CC CLASSIFICATION: 424
CC PRIOR APPLICATION DATA:
CC APPLICATION NUMBER: PCT/US92/08972
CC FILING DATE: 22-OCT-1992
CC ATTORNEY/AGENT INFORMATION:
CC NAME: COOPER, Iver P.
CC REGISTRATION NUMBER: 28,005
CC REFERENCE/DOCKET NUMBER: BARBOUR=1B
CC TELECOMMUNICATION INFORMATION:
CC TELEPHONE: 202-628-5197
CC TELEFAX: 202-737-3528
CC TELEX: 248633
CC INFORMATION FOR SEQ ID NO: 6:
CC SEQUENCE CHARACTERISTICS:
CC LENGTH: 299 amino acids
CC TYPE: amino acid
CC TOPOLOGY: linear
CC MOLECULE TYPE: protein
SQ SEQUENCE 299 AA; 32432 MW; 487636 CN;

Query Match 6.3%; Score 111; DB 1; Length 299;
Best Local Similarity 21.1%; Pred. No. 2.78e+00;
Matches 43; Conservative 59; Mismatches 89; Indels 13; Gaps 13;

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Db     44 KD-SKKDLTVLAEENSVPLFNGNKIFVSKEKNSAGKYELRATVDTVELKGVSDKNN-GS- 100
          |: |:|:|  | |: : |  :   | |  : :    :|  :  |  :: ||      ::
Qy     41 KERSRKELEKLLEQLNQPEAHLYQIDVQSDEEVINGFEQIGK-DVGNIDGVYHSIAFANM 99

Db    101 GKLEGTKADKTKVAMTIADDLNTITVETYDASNKKTGSEVVKKQGSV-IKESYKANKLDS 159
            | |  :: :: :  :|:|::: ::       ||  :|     ::  :   :   : :
Qy    100 EDLRGRFSETSREGFLLAQDISSYSLTIVAHEAKKLMPEGGSIVATTYLGGEFAVQNYNV 159

Db    160 KKITREN-ETTLEYSEMTDSSNDTKAVETLKNG-IK-LEGSLVGG-KTTVKLTEGTITLT 215
          : ::: : |: : |  :  :::: : |:::  | |: | :  ||| :| :|  |    |
Qy    160 MGVAKASLEANVKYLALDLGPDNIR-VNAISAGPIRTLSAKGVGGFNTILKEIEERAPLK 218

Db    216 REIEQ-D-GKVKIYL-NDTTSGST 236
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Qy    219 RNVDQVEVGKTAAYLLSDLSSGVT 242
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Search completed: Fri Jan 15 15:04:49 1999
Job time : 16 secs.

****

MPSRCH (TM)

****

Release 3.1A John F. Collins, Biocomputing Research Unit.

MPsrch_nn n.a. - n.a. database search, using Smith-Waterman algorithm

Run on: Fri Jan 15 15:40:37 1999; MasPar time 43.45 Seconds
1102.362 Million cell updates/sec

Tabular output not generated.

Title: >US-08-790-043B-1
Description: (1-771) from US08790043B.seq
Perfect Score: 771
N.A. Sequence: 1 ATGTTAAATCTTGAAAACAA.....GATTCCACGCAATTAAATAA 771
Comp: TACAATTTAGAACTTTTGTT.....CTAAGGTGCGTTAATTTATT

Scoring table: TABLE default
Gap 6

Nmatch STD : Dbase 0; Query 0

Searched: 120476 seqs, 31064459 bases x 2

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database: n-issued
1:5_COMB 2:PCT9_COMB 3:backfiles1

Statistics: Mean 8.068; Variance 4.336; scale 1.861

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description	Pred. No.
c	1	55	7.1	7218	1	US-08-232-	Sequence 14, Applicati	1.62e-22
	2	27	3.5	215	1	US-08-238-	Sequence 5, Applicatio	3.81e-04
	3	27	3.5	242	1	US-08-273-	Sequence 1, Applicatio	3.81e-04
c	4	24	3.1	215	1	US-08-238-	Sequence 5, Applicatio	2.03e-02
c	5	22	2.9	2894	1	US-08-278-	Sequence 1, Applicatio	2.58e-01
c	6	22	2.9	2894	1	US-08-472-	Sequence 1, Applicatio	2.58e-01
c	7	22	2.9	2894	1	US-08-483-	Sequence 1, Applicatio	2.58e-01
	8	21	2.7	74	2	PCT-US95-1	Sequence 100, Applicat	8.85e-01
c	9	21	2.7	74	2	PCT-US95-1	Sequence 94, Applicati	8.85e-01
	10	21	2.7	81	2	PCT-US95-1	Sequence 98, Applicati	8.85e-01
c	11	21	2.7	81	2	PCT-US95-1	Sequence 92, Applicati	8.85e-01
c	12	21	2.7	242	1	US-08-273-	Sequence 1, Applicatio	8.85e-01
c	13	21	2.7	774	2	PCT-US91-0	Sequence 1, Applicatio	8.85e-01
	14	21	2.7	824	1	US-08-158-	Sequence 1, Applicatio	8.85e-01
c	15	20	2.6	42	1	US-08-452-	Sequence 43, Applicati	2.95e+00
	16	20	2.6	54	1	US-08-452-	Sequence 15, Applicati	2.95e+00
c	17	20	2.6	54	1	US-08-452-	Sequence 14, Applicati	2.95e+00
c	18	20	2.6	75	2	PCT-US95-1	Sequence 99, Applicati	2.95e+00
c	19	20	2.6	81	2	PCT-US95-1	Sequence 98, Applicati	2.95e+00
c	20	20	2.6	82	2	PCT-US95-1	Sequence 97, Applicati	2.95e+00
	21	20	2.6	90	1	US-08-442-	Sequence 30, Applicati	2.95e+00
	22	20	2.6	579	2	PCT-US96-0	Sequence 1664, Applica	2.95e+00
c	23	20	2.6	1265	1	US-08-182-	Sequence 5, Applicatio	2.95e+00
	24	20	2.6	1323	1	US-08-307-	Sequence 36, Applicati	2.95e+00
	25	20	2.6	1990	3	5171685-5	Patent No. 5171685.	2.95e+00
	26	20	2.6	1990	3	5518916-5	Patent No. 5518916.	2.95e+00
	27	20	2.6	4383	3	5177307-1	Patent No. 5177307.	2.95e+00
	28	20	2.6	4383	3	5175095-4	Patent No.5175095.	2.95e+00
	29	20	2.6	8082	2	PCT-US93-0	Sequence 28, Applicati	2.95e+00
	30	20	2.6	14176	1	US-08-307-	Sequence 14, Applicati	2.95e+00
c	31	20	2.6	14176	1	US-08-307-	Sequence 1, Applicatio	2.95e+00
c	32	19	2.5	66	2	PCT-US95-1	Sequence 93, Applicati	9.50e+00
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	38	19	2.5	1079	1	US-07-809-	Sequence 1, Applicatio	9.50e+00
	39	19	2.5	1561	2	PCT-US92-0	Sequence 25, Applicati	9.50e+00
	40	19	2.5	2504	1	US-08-484-	Sequence 15, Applicati	9.50e+00
c	41	19	2.5	2712	2	PCT-US95-0	Sequence 37, Applicati	9.50e+00
c	42	19	2.5	3104	2	PCT-US95-0	Sequence 66, Applicati	9.50e+00
c	43	19	2.5	5183	1	US-08-459-	Sequence 3, Applicatio	9.50e+00
	44	19	2.5	14311	2	PCT-US96-0	Sequence 1, Applicatio	9.50e+00
c	45	19	2.5	14311	2	PCT-US96-0	Sequence 7, Applicatio	9.50e+00

ALIGNMENTS

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ID   US-08-232-463-14 STANDARD; DNA; UNC; 7218 BP.
AC   xxxxxx
DT
DE   Sequence 14, Application US/08232463
CC   Sequence 14, Application US/08232463
CC   Patent No. 5670367
CC    GENERAL INFORMATION:
CC      APPLICANT:  DORNER, F.
CC      APPLICANT:  SCHEIFLINGER, F.
CC      APPLICANT:  FALKNER, F. G.
CC      TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
CC      NUMBER OF SEQUENCES:  52
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Foley & Lardner
CC        STREET:  1800 Diagonal Road, Suite 500
CC        CITY:  Alexandria
CC        STATE:  VA
CC        COUNTRY:  USA
CC        ZIP:  22313-0299
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/232,463
CC        FILING DATE:
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US/07/935,313
CC        FILING DATE:
CC        APPLICATION NUMBER:  EP 91 114 300.6
CC        FILING DATE:  26-AUG-1991
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  BENT, Stephen A.
CC        REGISTRATION NUMBER:  29,768
CC        REFERENCE/DOCKET NUMBER:  30472/114 IMMU
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (703)836-9300
CC        TELEFAX:  (703)683-4109
CC        TELEX:  899149
CC     INFORMATION FOR SEQ ID NO:  14:
CC      SEQUENCE CHARACTERISTICS:
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CC        LENGTH:  7218 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      IMMEDIATE SOURCE:
CC        CLONE:  pTZgpt-F1s
SQ   SEQUENCE 7218 BP; 1944 A; 1491 C; 1486 G; 1929 T; 368 OTHER.

  Query Match             7.1%;  Score 55;  DB 1;  Length 7218;
  Best Local Similarity   1.9%;  Pred. No. 1.62e-22;
  Matches     7;  Conservative  206;  Mismatches 158;  Indels   0;  Gaps   0;

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Cp    761 GCGTGGAATCCGCTATCTACATGAATATTTTCACCTGTAACGCCACTTGATAAGTCACTT 702

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Db   1178 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1237
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Db   1238 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1297
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Cp    581 CGGATTGGACCAGCTGAAATTGCATTAACGCGAATATTATCAGGACCTAAGTCTAATGCT 522

Db   1298 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1357
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Cp    521 AAATATTTAACATTTGCTTCTAAGCTCGCTTTAGCAACACCCATCACATTATAATTTTGA 462

Db   1358 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1417
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Cp    461 ACTGCGAATTCGCCACCTAAATATGTTGTTGCAACAATGCTACCACCTTCTGGCATTAAT 402

Db   1418 YYYYYYYYYYY 1428
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Cp    401 TTTTTAGCTTC 391


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ID   US-08-238-163-5 STANDARD; DNA; UNC; 215 BP.
AC   xxxxxx
DT
DE   Sequence 5, Application US/08238163
CC   Sequence 5, Application US/08238163
CC   Patent No. 5569830
CC    GENERAL INFORMATION:
CC      APPLICANT:  BENNETT, Alan
CC      APPLICANT:  LABAVITCH, John M.
CC      APPLICANT:  POWELL, Ann
CC      APPLICANT:  STOTZ, Henrik
CC      TITLE OF INVENTION:  PLANT INHIBITORS OF FUNGAL
CC      TITLE OF INVENTION:  POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
CC      NUMBER OF SEQUENCES:  24
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Townsend and Townsend Khourie and Crew
CC        STREET:  Steuart Street Tower, One Market Plaza
CC        CITY:  San Francisco
CC        STATE:  California
CC        COUNTRY:  US
CC        ZIP:  94105-1493
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/238,163
CC        FILING DATE:  03-MAY-1994
CC        CLASSIFICATION:  800
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Bastian, Kevin L.
CC        REGISTRATION NUMBER:  34,774
CC        REFERENCE/DOCKET NUMBER:  2307E-540
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (415) 543-9600
CC        TELEFAX:  (415) 543-5043
CC    INFORMATION FOR SEQ ID NO:  5:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  215 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  unknown
CC      MOLECULE TYPE:  protein
CC      FEATURE:
CC        NAME/KEY:  misc_feature
CC        LOCATION:  1..215
CC        OTHER INFORMATION:  /standard_name= "Deduced amino acid
CC        OTHER INFORMATION:  sequence of PGIP from bean."
SQ   SEQUENCE 215 BP; 15 A; 8 C; 25 G; 26 T; 141 OTHER.

  Query Match             3.5%;  Score 27;  DB 1;  Length 215;
  Best Local Similarity  17.8%;  Pred. No. 3.81e-04;
  Matches    26;  Conservative   55;  Mismatches  63;  Indels   2;  Gaps   2;

Db     43 VCDTDTTYRVNNDSGHNKYSSANYNYGGNNVGAAKTHYYTHTNVSGADSKTVTDSYNASG 102
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Qy    368 ACTCATTAACAATTGTGGCTCATGAAGCTAAAAAATTAATGCCAGAAGGTGGTAGCATTG 427

Db    103 TSSSNGGTDGN-RSG-ADSYGSSKTAMTSRNRTGKTANNAVDSRNMGDASVGSDKNTKKH 160
          | ::   :   :   |:::|::: | |:: :  : |  | :   : : :: :::  ::
Qy    428 TTGCAACAACATATTTAGGTGGCGAATTCGCAGTTCAAAATTATAATGTGATGGGTGTTG 487

Db    161 AKNSADGKVGSKNNGDRNNRYGTGTK 186
            :  |: ::|::  |::  :  |||:
Qy    488 CTAAAGCGAGCTTAGAAGCAAATGTT 513


RESULT    3
ID   US-08-273-846-1 STANDARD; DNA; UNC; 290 BP.
AC   xxxxxx
DT
DE   Sequence 1, Application US/08273846
CC   Sequence 1, Application US/08273846
CC   Patent No. 5641863
CC    GENERAL INFORMATION:
CC      APPLICANT:  SCHREIBER, ALAN D.
CC      APPLICANT:  PARK, JONG-GU
CC      TITLE OF INVENTION:  METHODS OF STIMULATING PHAGOCYTOSIS
CC      NUMBER OF SEQUENCES:  7
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  NIXON & VANDERHYE P.C.
CC        STREET:  1100 NORTH GLEBE ROAD
CC        CITY:  ARLINGTON
CC        STATE:  VIRGINIA
CC        COUNTRY:  U.S.A.
CC        ZIP:  22201-4714
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/273,846
CC        FILING DATE:  12-JUL-1994
CC        CLASSIFICATION:  530
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WILSON, MARY J.
CC        REGISTRATION NUMBER:  32,955
CC        REFERENCE/DOCKET NUMBER:  555-29
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (703) 816-4000
CC        TELEFAX:  (703) 816-4100
CC    INFORMATION FOR SEQ ID NO:  1:
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CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  29 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   SEQUENCE 290 BP; 17 A; 34 C; 8 G; 11 T; 220 OTHER.

  Query Match             3.5%;  Score 27;  DB 1;  Length 242;
  Best Local Similarity  11.2%;  Pred. No. 3.81e-04;
  Matches    15;  Conservative   30;  Mismatches  89;  Indels   0;  Gaps   0;

Db      75 ALLEDFROMCRFRFORM*FXPCALLEDFROMCRFCONVT*FXPCALLEDFROMON***CA 134
           |   : : : :    ::     |   : : :|     :|          :   :     ||
Qy     508 AATGTTAAATATTTAGCATTAGACTTAGGTCCTGATAATATTCGCGTTAATGCAATTTCA 567

Db     135 LLEDFROMPROCEDUREGETPATHCCRFAPPSCRF*EXECALLEDFROMON***CALLED 194
           :   : : | :::   | | : |: |  : :           : :     |    :
Qy     568 GCTGGTCCAATCCGTACATTAAGTGCAAAAGGTGTGGGTGGTTTCAATACAATTCTTAAA 627

Db     195 FROMCCRFAPPSCR 208
           : : |: |  :|:
Qy     628 GAAATCGAAGAGCG 641


RESULT    4
ID   US-08-238-163-5 STANDARD; DNA; UNC; 215 BP.
AC   xxxxxx
DT
DE   Sequence 5, Application US/08238163
CC   Sequence 5, Application US/08238163
CC   Patent No. 5569830
CC    GENERAL INFORMATION:
CC      APPLICANT:  BENNETT, Alan
CC      APPLICANT:  LABAVITCH, John M.
CC      APPLICANT:  POWELL, Ann
CC      APPLICANT:  STOTZ, Henrik
CC      TITLE OF INVENTION:  PLANT INHIBITORS OF FUNGAL
CC      TITLE OF INVENTION:  POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
CC      NUMBER OF SEQUENCES:  24
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Townsend and Townsend Khourie and Crew
CC        STREET:  Steuart Street Tower, One Market Plaza
CC        CITY:  San Francisco
CC        STATE:  California
CC        COUNTRY:  US
CC        ZIP:  94105-1493
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/238,163
CC        FILING DATE:  03-MAY-1994
CC        CLASSIFICATION:  800
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Bastian, Kevin L.
CC        REGISTRATION NUMBER:  34,774
CC        REFERENCE/DOCKET NUMBER:  2307E-540
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (415) 543-9600
CC        TELEFAX:  (415) 543-5043
CC    INFORMATION FOR SEQ ID NO:  5:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  215 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  unknown
CC      MOLECULE TYPE:  protein
CC      FEATURE:
CC        NAME/KEY:  misc_feature
CC        LOCATION:  1..215
CC        OTHER INFORMATION:  /standard_name= "Deduced amino acid
CC        OTHER INFORMATION:  sequence of PGIP from bean."
SQ   SEQUENCE 215 BP; 15 A; 8 C; 25 G; 26 T; 141 OTHER.

  Query Match             3.1%;  Score 24;  DB 1;  Length 215;
  Best Local Similarity  15.6%;  Pred. No. 2.03e-02;
  Matches    17;  Conservative   42;  Mismatches  50;  Indels   0;  Gaps   0;

Db      58 HNKYSSANYNYGGNNVGAAKTHYYTHTNVSGADSKTVTDSYNASGTSSSNGGTDGNRSGA 117
           : :::: :   |  :|  :|: : :  :: |::  :|: : |  | :      | :
Cp     510 ATTTGCTTCTAAGCTCGCTTTAGCAACACCCATCACATTATAATTTTGAACTGCGAATTC 451

Db     118 DSYGSSKTAMTSRNRTGKTANNAVDSRNMGDASVGSDKNTKKHAKNSAD 166
           ::: ::: |:|    ||:|   |::   : : :: ::: |:::|:  |:
Cp     450 GCCACCTAAATATGTTGTTGCAACAATGCTACCACCTTCTGGCATTAAT 402


RESULT    5
ID   US-08-278-091-1 STANDARD; DNA; UNC; 2894 BP.
AC   xxxxxx
DT
DE   Sequence 1, Application US/08278091
CC   Sequence 1, Application US/08278091
CC   Patent No. 5506139
CC    GENERAL INFORMATION:
CC      APPLICANT:  LOOSMORE, Sheena M
CC      APPLICANT:  YANG, Yan-Ping
CC      APPLICANT:  CHONG, Pele
CC      APPLICANT:  OOMEN, Raymond P.
CC      APPLICANT:  KLEIN, Michel H.
CC      TITLE OF INVENTION:  Analog of Haemophilus Hin47 Protein with
CC      TITLE OF INVENTION:  Reduced Protease Activity
CC      NUMBER OF SEQUENCES:  23
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Sim & McBurney
CC        STREET:  Suite 701, 330 University Avenue
CC        CITY:  Toronto
CC        STATE:  Ontario
CC        COUNTRY:  Canada
CC        ZIP:  M5G 1R7
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/278,091
CC        FILING DATE:  21-JUL-1994
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Stewart, Michael I
CC        REGISTRATION NUMBER:  24,973
CC        REFERENCE/DOCKET NUMBER:  1038-371
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (416) 595-1155
CC        TELEFAX:  (416) 595-1163
CC    INFORMATION FOR SEQ ID NO:  1:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  2894 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
SQ   SEQUENCE 2894 BP; 897 A; 570 C; 515 G; 912 T; 0 OTHER.

  Query Match             2.9%;  Score 22;  DB 1;  Length 2894;
  Best Local Similarity  75.0%;  Pred. No. 2.58e-01;
  Matches    33;  Conservative    0;  Mismatches  11;  Indels   0;  Gaps   0;

Db    2675 CGCTTGTTGTTGCGTCAATTCTTCTAATGATGGTTCACGCCCTT 2718
           ||||| | ||||  | |||| |||||||  ||  |||| || |||
Cp     180 CGCTTCTGGTTGATTTAATTGTTCTAATAATTTTTCAAGCTCTT 137
```

```
RESULT    6
ID   US-08-472-173-1 STANDARD; DNA; UNC; 2894 BP.
AC   xxxxxx
DT
DE   Sequence 1, Application US/08472173
CC   Sequence 1, Application US/08472173
CC   Patent No. 5665353
CC    GENERAL INFORMATION:
CC      APPLICANT:  LOOSMORE, Sheena M
CC      APPLICANT:  YANG, Yan-Ping
CC      APPLICANT:  CHONG, Pele
CC      APPLICANT:  OOMEN, Raymond P.
CC      APPLICANT:  KLEIN, Michel H.
CC      TITLE OF INVENTION:  Analog of Haemophilus Hin47 Protein with
CC      TITLE OF INVENTION:  Reduced Protease Activity
CC      NUMBER OF SEQUENCES:  23
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Sim & McBurney
CC        STREET:  Suite 701, 330 University Avenue
CC        CITY:  Toronto
CC        STATE:  Ontario
CC        COUNTRY:  Canada
CC        ZIP:  M5G 1R7
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/472,173
CC        FILING DATE:  07-JUN-1995
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/296,149
CC        FILING DATE:  26-AUG-1994
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/278,091
CC        FILING DATE:  21-JUL-1994
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Stewart, Michael I.
CC        REGISTRATION NUMBER:  24,973
CC        REFERENCE/DOCKET NUMBER:  1038-493 MIS:vg
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (416) 595-1155
CC        TELEFAX:  (416) 595-1163
CC     INFORMATION FOR SEQ ID NO:  1:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  2894 base pairs
CC         TYPE:  nucleic acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
SQ   SEQUENCE 2894 BP; 897 A; 570 C; 515 G; 912 T; 0 OTHER.

  Query Match             2.9%;  Score 22;  DB 1;  Length 2894;
  Best Local Similarity  75.0%;  Pred. No. 2.58e-01;
  Matches    33;  Conservative    0;  Mismatches  11;  Indels   0;  Gaps   0;

Db   2675 CGCTTGTTGTTGCGTCAATTCTTCTAATGATGGTTCACGCCCTT 2718
           ||||| | ||||  | |||| ||||||| ||  |||| || |||
Cp    180 CGCTTCTGGTTGATTTAATTGTTCTAATAATTTTTCAAGCTCTT 137


RESULT    7
ID   US-08-483-859-1 STANDARD; DNA; UNC; 2894 BP.
AC   xxxxxx
DT
DE   Sequence 1, Application US/08483859
CC   Sequence 1, Application US/08483859
CC   Patent No. 5656436
CC    GENERAL INFORMATION:
CC      APPLICANT:  LOOSMORE, Sheena M.
CC      APPLICANT:  YANG, Yan-Ping
CC      APPLICANT:  CHONG, Pele
CC      APPLICANT:  OOMEN, Raymond P.
CC      APPLICANT:  KLEIN, Michel H.
CC      TITLE OF INVENTION:  Analog of Haemophilus Hin47 Protein with
CC      TITLE OF INVENTION:  Reduced Protease Activity
CC      NUMBER OF SEQUENCES:  23
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Sim & McBurney
CC        STREET:  Suite 701, 330 University Avenue
CC        CITY:  Toronto
CC        STATE:  Ontario
CC        COUNTRY:  Canada
CC        ZIP:  M5G 1R7
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/483,859
CC        FILING DATE:  07-JUN-1995
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/296,149
CC        FILING DATE:  26-AUG-1994
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 08/278,091
CC        FILING DATE:  21-JUL-1994
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Stewart, Michael I.
CC        REGISTRATION NUMBER:  24,973
CC        REFERENCE/DOCKET NUMBER:  1038-495 MIS:vg
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (416) 595-1155
CC        TELEFAX:  (416) 595-1163
CC     INFORMATION FOR SEQ ID NO:  1:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  2894 base pairs
CC         TYPE:  nucleic acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
SQ   SEQUENCE 2894 BP; 897 A; 570 C; 515 G; 912 T; 0 OTHER.

  Query Match             2.9%;  Score 22;  DB 1;  Length 2894;
  Best Local Similarity  75.0%;  Pred. No. 2.58e-01;
  Matches    33;  Conservative    0;  Mismatches  11;  Indels   0;  Gaps   0;

Db   2675 CGCTTGTTGTTGCGTCAATTCTTCTAATGATGGTTCACGCCCTT 2718
           ||||| | ||||  | |||| ||||||| ||  |||| || |||
Cp    180 CGCTTCTGGTTGATTTAATTGTTCTAATAATTTTTCAAGCTCTT 137


RESULT    8
ID   PCT-US95-11934-100 STANDARD; DNA; UNC; 74 BP.
AC   xxxxxx
DT
DE   Sequence 100, Application PC/TUS9511934
CC   Sequence 100, Application PC/TUS9511934
CC    GENERAL INFORMATION:
CC      APPLICANT:  Cytogen Corporation
CC      TITLE OF INVENTION:  Antigen Binding Peptides (Abtides) From
CC      TITLE OF INVENTION:  Peptide Libraries
CC      NUMBER OF SEQUENCES:  103
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Pennie & Edmonds
CC        STREET:  1155 Avenue of the Americas
CC        CITY:  New York
CC        STATE:  New York
CC        COUNTRY:  USA
CC        ZIP:  10036
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
```

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CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/11934
CC         FILING DATE:  20-SEP-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Misrock, S. Leslie
CC         REGISTRATION NUMBER:  18,872
CC         REFERENCE/DOCKET NUMBER:  1101-196-228
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (212) 790-9090
CC         TELEFAX:  (212) 869-9741/8864
CC         TELEX:  66141 PENNIE
CC     INFORMATION FOR SEQ ID NO:  100:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  74 base pairs
CC         TYPE:  nucleic acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  DNA (genomic)
SQ    SEQUENCE 74 BP; 6 A; 6 C; 1 G; 1 T; 60 OTHER.

  Query Match             2.7%;  Score 21;  DB 2;  Length 74;
  Best Local Similarity   4.8%;  Pred. No. 8.85e-01;
  Matches     3;  Conservative   19;  Mismatches  41;  Indels   0;  Gaps   0;

Db       5 AVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNN 64
           |: : : : : : : : : :     : : : : : : : : : : : : : : :
Qy     375 AACAATTGTGGCTCATGAAGCTAAAAAATTAATGCCAGAAGGTGGTAGCATTGTTGCAAC 434

Db      65 NAC 67
            ||
Qy     435 AAC 437


RESULT    9
ID    PCT-US95-11934-94 STANDARD; DNA; UNC; 74 BP.
AC    xxxxxx
DT
DE    Sequence 94, Application PC/TUS9511934
CC    Sequence 94, Application PC/TUS9511934
CC     GENERAL INFORMATION:
CC       APPLICANT:  Cytogen Corporation
CC       TITLE OF INVENTION:  Antigen Binding Peptides (Abtides) From
CC       TITLE OF INVENTION:  Peptide Libraries
CC       NUMBER OF SEQUENCES:  103
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Pennie & Edmonds
CC         STREET:  1155 Avenue of the Americas
CC         CITY:  New York
CC         STATE:  New York
CC         COUNTRY:  USA
CC         ZIP:  10036
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/11934
CC         FILING DATE:  20-SEP-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Misrock, S. Leslie
CC         REGISTRATION NUMBER:  18,872
CC         REFERENCE/DOCKET NUMBER:  1101-196-228
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (212) 790-9090
CC         TELEFAX:  (212) 869-9741/8864
CC         TELEX:  66141 PENNIE
CC     INFORMATION FOR SEQ ID NO:  94:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  74 base pairs
CC         TYPE:  nucleic acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  DNA (genomic)
SQ    SEQUENCE 74 BP; 3 A; 4 C; 3 G; 1 T; 63 OTHER.

  Query Match             2.7%;  Score 21;  DB 2;  Length 74;
  Best Local Similarity   7.2%;  Pred. No. 8.85e-01;
  Matches     5;  Conservative   19;  Mismatches  45;  Indels   0;  Gaps   0;

Db       3 GAGNNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNN 62
           ||    : : : : : : : : : : : : : : :     : : : : :
Cp     274 GATATACACCATCAATATTGCCAACATCTTTACCAATTTGCTCAAAACCATTAATAACCT 215

Db      63 BNNBNACGC 71
           : :  |||
Cp     214 CTTCATCGC 206


RESULT   10
ID    PCT-US95-11934-98 STANDARD; DNA; UNC; 81 BP.
AC    xxxxxx
DT
DE    Sequence 98, Application PC/TUS9511934
CC    Sequence 98, Application PC/TUS9511934
CC     GENERAL INFORMATION:
CC       APPLICANT:  Cytogen Corporation
CC       TITLE OF INVENTION:  Antigen Binding Peptides (Abtides) From
CC       TITLE OF INVENTION:  Peptide Libraries
CC       NUMBER OF SEQUENCES:  103
CC       CORRESPONDENCE ADDRESS:
CC         ADDRESSEE:  Pennie & Edmonds
CC         STREET:  1155 Avenue of the Americas
CC         CITY:  New York
CC         STATE:  New York
CC         COUNTRY:  USA
CC         ZIP:  10036
CC       COMPUTER READABLE FORM:
CC         MEDIUM TYPE:  Floppy disk
CC         COMPUTER:  IBM PC compatible
CC         OPERATING SYSTEM:  PC-DOS/MS-DOS
CC         SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC       CURRENT APPLICATION DATA:
CC         APPLICATION NUMBER:  PCT/US95/11934
CC         FILING DATE:  20-SEP-1995
CC         CLASSIFICATION:
CC       ATTORNEY/AGENT INFORMATION:
CC         NAME:  Misrock, S. Leslie
CC         REGISTRATION NUMBER:  18,872
CC         REFERENCE/DOCKET NUMBER:  1101-196-228
CC       TELECOMMUNICATION INFORMATION:
CC         TELEPHONE:  (212) 790-9090
CC         TELEFAX:  (212) 869-9741/8864
CC         TELEX:  66141 PENNIE
CC     INFORMATION FOR SEQ ID NO:  98:
CC       SEQUENCE CHARACTERISTICS:
CC         LENGTH:  81 base pairs
CC         TYPE:  nucleic acid
CC         STRANDEDNESS:  single
CC         TOPOLOGY:  linear
CC       MOLECULE TYPE:  DNA (genomic)
SQ    SEQUENCE 81 BP; 6 A; 6 C; 4 G; 5 T; 60 OTHER.

  Query Match             2.7%;  Score 21;  DB 2;  Length 81;
  Best Local Similarity   4.8%;  Pred. No. 8.85e-01;
  Matches     3;  Conservative   19;  Mismatches  41;  Indels   0;  Gaps   0;

Db      12 AVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNNVNN 71
           |: : : : : : : : : :     : : : : : : : : : : : : : : :
Qy     375 AACAATTGTGGCTCATGAAGCTAAAAAATTAATGCCAGAAGGTGGTAGCATTGTTGCAAC 434

Db      72 NAC 74
            ||
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Qy    435 AAC 437


RESULT   11
ID   PCT-US95-11934-92 STANDARD; DNA; UNC; 81 BP.
AC   xxxxxx
DT
DE   Sequence 92, Application PC/TUS9511934
CC   Sequence 92, Application PC/TUS9511934
CC    GENERAL INFORMATION:
CC      APPLICANT:  Cytogen Corporation
CC      TITLE OF INVENTION:  Antigen Binding Peptides (Abtides) From
CC      TITLE OF INVENTION:  Peptide Libraries
CC      NUMBER OF SEQUENCES:  103
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Pennie & Edmonds
CC        STREET:  1155 Avenue of the Americas
CC        CITY:  New York
CC        STATE:  New York
CC        COUNTRY:  USA
CC        ZIP:  10036
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US95/11934
CC        FILING DATE:  20-SEP-1995
CC        CLASSIFICATION:
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Misrock, S. Leslie
CC        REGISTRATION NUMBER:  18,872
CC        REFERENCE/DOCKET NUMBER:  1101-196-228
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (212) 790-9090
CC        TELEFAX:  (212) 869-9741/8864
CC        TELEX:  66141 PENNIE
CC    INFORMATION FOR SEQ ID NO:  92:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  81 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   SEQUENCE 81 BP; 3 A; 5 C; 6 G; 4 T; 63 OTHER.

  Query Match             2.7%;  Score 21;  DB 2;  Length 81;
  Best Local Similarity  11.0%;  Pred. No. 8.85e-01;
  Matches     8;  Conservative   18;  Mismatches  47;  Indels   0;  Gaps   0;

Db       7 CTCGAGNNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNBNNN 66
           || ||    :  :  :  :     :  :  :  :  :  :  :  :  :  :  :  :  :
Cp     670 CTTGATCAACGTTACGTTTTAAAGGTGCACGCTCTTCGATTTCTTTAAGAATTGTATTGA 611

Db      67 BNNBNNBNACGCC 79
             :  : || ||
Cp     610 AACCACCCACACC 598


RESULT   12
ID   US-08-273-846-1 STANDARD; DNA; UNC; 290 BP.
AC   xxxxxx
DT
DE   Sequence 1, Application US/08273846
CC   Sequence 1, Application US/08273846
CC   Patent No. 5641863
CC    GENERAL INFORMATION:
CC      APPLICANT:  SCHREIBER, ALAN D.
CC      APPLICANT:  PARK, JONG-GU
CC      TITLE OF INVENTION:  METHODS OF STIMULATING PHAGOCYTOSIS
CC      NUMBER OF SEQUENCES:  7
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  NIXON & VANDERHYE P.C.
CC        STREET:  1100 NORTH GLEBE ROAD
CC        CITY:  ARLINGTON
CC        STATE:  VIRGINIA
CC        COUNTRY:  U.S.A.
CC        ZIP:  22201-4714
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/273,846
CC        FILING DATE:  12-JUL-1994
CC        CLASSIFICATION:  530
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  WILSON, MARY J.
CC        REGISTRATION NUMBER:  32,955
CC        REFERENCE/DOCKET NUMBER:  555-29
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (703) 816-4000
CC        TELEFAX:  (703) 816-4100
CC    INFORMATION FOR SEQ ID NO:  1:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  29 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   SEQUENCE 290 BP; 17 A; 34 C; 8 G; 11 T; 220 OTHER.

  Query Match             2.7%;  Score 21;  DB 1;  Length 242;
  Best Local Similarity   9.4%;  Pred. No. 8.85e-01;
  Matches    13;  Conservative   35;  Mismatches  88;  Indels   2;  Gaps   2;

Db       6 DFROMPROCEDURERFNUCLECRFPROC*FXPC-ALLEDFROMPROCEDURERFDESCCR 64
           :  :  :  :  |  :  :  :  :   |:  :       |   :  :  :  :  :  :  :  :
Cp     353 TGAGCTAACAAGAAGCCTTCACGTGAAGTTTCAGAAAAGCGTCCGCGTAAGTCTTCCATA 294

Db      65 FPROC*FXPCALLEDFROMCRFRFORM*FXPCALLEDFROMCRFCONVT*FXPCALLEDF 124
            : |        :  :   :  :   :     ||    :  :  :|: |  :|    ||   :
Cp     293 TTAGCAAATGCGATTGAATGATATACACCATCAATATTG-CCAACATCTTTACCAATTTG 235

Db     125 ROMON***CALLEDFROM 142
             :    ||   :  :
Cp     234 CTCAAAACCATTAATAAC 217


RESULT   13
ID   PCT-US91-05766-1 STANDARD; DNA; UNC; 774 BP.
AC   xxxxxx
DT
DE   Sequence 1, Application PC/TUS9105766
CC   Sequence 1, Application PC/TUS9105766
CC    GENERAL INFORMATION:
CC      APPLICANT:  Rosenblum, Michael
CC      APPLICANT:  Kohr, William Jack
CC      APPLICANT:  Aggarwal, Bharat
CC      TITLE OF INVENTION:  Protein Structure of the Plant Toxin
CC      TITLE OF INVENTION:  Gelonin
CC      NUMBER OF SEQUENCES:  2
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Fulbright & Jaworski Patent Department
CC        STREET:  1301 McKinney #5100
CC        CITY:  Houston
CC        STATE:  Texas
CC        COUNTRY:  USA
CC        ZIP:  77010
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
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CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US91/05766
CC        FILING DATE:  19910814
CC        CLASSIFICATION:  536
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 07/567,220
CC        FILING DATE:  14-AUG-1990
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Launer, Charlene A.
CC        REGISTRATION NUMBER:  33,035
CC        REFERENCE/DOCKET NUMBER:  D-5195 PCT
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (713)651-3634
CC        TELEFAX:  (713)651-5246
CC    INFORMATION FOR SEQ ID NO:  1:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  774 base pairs
CC        TYPE:  NUCLEIC ACID
CC        STRANDEDNESS:  double
CC        TOPOLOGY:  unknown
CC      MOLECULE TYPE:  DNA (genomic)
CC      HYPOTHETICAL:  YES
CC      ORIGINAL SOURCE:
CC        ORGANISM:  Gelonium multiforum
CC        DEVELOPMENTAL STAGE:  Seed
CC        TISSUE TYPE:  Nut
CC      FEATURE:
CC        NAME/KEY:  CDS
CC        LOCATION:  1..774
SQ   SEQUENCE 774 BP; 162 A; 64 C; 123 G; 102 T; 323 OTHER.

  Query Match            2.7%;  Score 21;  DB 2;  Length 774;
  Best Local Similarity  37.5%;  Pred. No. 8.85e-01;
  Matches   18;  Conservative   14;  Mismatches  16;  Indels   0;  Gaps   0;

Db    542 ARAAYCARATHMGNAAYAAYTTYCARCARMGNATHMGNCCNGCNAAYA 589
          |: |:| :  ::   |:||:||: |:| ::| ||::| |     ||:|
Cp    486 AACACCCATCACATTATAATTTTGAACTGCGAATTCGCCACCTAAATA 439


RESULT   14
ID   US-08-158-353-1 STANDARD; DNA; UNC; 824 BP.
AC   xxxxxx
DT
DE   Sequence 1, Application US/08158353
CC   Sequence 1, Application US/08158353
CC   Patent No. 5620862
CC    GENERAL INFORMATION:
CC      APPLICANT:  Padula, Steven J.
CC      TITLE OF INVENTION:  Methods for Diagnosing Early Lyme
CC      TITLE OF INVENTION:  Disease
CC      NUMBER OF SEQUENCES:  7
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hamilton, Brook, Smith & Reynolds, P.C.
CC        STREET:  Two Militia Drive
CC        CITY:  Lexington
CC        STATE:  MA
CC        COUNTRY:  USA
CC        ZIP:  02173
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.25
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/158,353
CC        FILING DATE:
CC        CLASSIFICATION:  435
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Carroll, Alice O.
CC        REGISTRATION NUMBER:  33,542
CC        REFERENCE/DOCKET NUMBER:  UCT93-05
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  617-861-6240
CC        TELEFAX:  617-861-9540
CC    INFORMATION FOR SEQ ID NO:  1:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  824 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  linear
CC      MOLECULE TYPE:  DNA (genomic)
SQ   SEQUENCE 824 BP; 339 A; 104 C; 143 G; 238 T; 0 OTHER.

  Query Match            2.7%;  Score 21;  DB 1;  Length 824;
  Best Local Similarity  83.9%;  Pred. No. 8.85e-01;
  Matches   26;  Conservative    0;  Mismatches   5;  Indels   0;  Gaps   0;

Db    703 AAGAGCTTGAAAAGTTATTTGAATCAGTAAA 733
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Qy    137 AAGAGCTTGAAAAATTATTAGAACAATTAAA 167


RESULT   15
ID   US-08-452-724A-43 STANDARD; DNA; UNC; 42 BP.
AC   xxxxxx
DT
DE   Sequence 43, Application US/08452724A
CC   Sequence 43, Application US/08452724A
CC   Patent No. 5830650
CC    GENERAL INFORMATION:
CC      APPLICANT:  Crea, Roberto
CC      TITLE OF INVENTION:  Walk-Through Mutagenesis
CC      NUMBER OF SEQUENCES:  59
CC      CORRESPONDENCE ADDRESS:
CC        ADDRESSEE:  Hamilton, Brook, Smith & Reynolds, P.C.
CC        STREET:  2 Militia Drive
CC        CITY:  Lexington
CC        STATE:  MA
CC        COUNTRY:  USA
CC        ZIP:  02173
CC      COMPUTER READABLE FORM:
CC        MEDIUM TYPE:  Floppy disk
CC        COMPUTER:  IBM PC compatible
CC        OPERATING SYSTEM:  PC-DOS/MS-DOS
CC        SOFTWARE:  PatentIn Release #1.0, Version #1.30
CC      CURRENT APPLICATION DATA:
CC        APPLICATION NUMBER:  US/08/452,724A
CC        FILING DATE:  30-MAY-1995
CC        CLASSIFICATION:  435
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 07/930,600
CC        FILING DATE:  05-APR-1991
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  PCT/US91/02362
CC        FILING DATE:  05-APR-1991
CC      PRIOR APPLICATION DATA:
CC        APPLICATION NUMBER:  US 07/505,314
CC        FILING DATE:  05-APR-1990
CC      ATTORNEY/AGENT INFORMATION:
CC        NAME:  Brook Esq., David E.
CC        REGISTRATION NUMBER:  22,592
CC        REFERENCE/DOCKET NUMBER:  RC90-01AZ
CC      TELECOMMUNICATION INFORMATION:
CC        TELEPHONE:  (617) 861-6240
CC        TELEFAX:  (617) 861-9540
CC    INFORMATION FOR SEQ ID NO:  43:
CC      SEQUENCE CHARACTERISTICS:
CC        LENGTH:  42 base pairs
CC        TYPE:  nucleic acid
CC        STRANDEDNESS:  single
CC        TOPOLOGY:  unknown
SQ   SEQUENCE 42 BP; 6 A; 3 C; 0 G; 8 T; 25 OTHER.

  Query Match            2.6%;  Score 20;  DB 1;  Length 42;
  Best Local Similarity  23.8%;  Pred. No. 2.95e+00;
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Matches 10; Conservative 21; Mismatches 11; Indels 0; Gaps 0;

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Db       1 SRTMACMAKYATMMTMMTSAWYACMRCSMTYMTSWTMAMSRT 42
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Cp     265 CATCAATATTGCCAACATCTTTACCAATTTGCTCAAAACCAT 224
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Search completed: Fri Jan 15 15:41:24 1999
Job time : 47 secs.